## Chandler + Arizona Where Values Make The Difference

## **CHANDLER FIRE DEPARTMENT**



## Plan Review Guide For Fire Sprinkler Systems

	CT NAME:				CITY LO	G #:	
PROJE	CT ADDRES	S:			_ CONTRA	CTOR:	
CONTA	ACT PERSON	l:			TELEPH	ONE #:	
A copy	of this guide s		d to submitted dr				hitectural drawings. conducted without
heads, does no perform	40 feet of pipe of change the ned by a contr	e, or 40 fittings; a hydraulic demar actor licensed b	and the alteration nd or density cal	n or acculation	ldition to the n requireme	system; or thats. All such	ess than 20 sprinkler ne occupancy use work <u>SHALL</u> be rrent valid permit from
informa	ition is include		on the drawings ed with the drawi				m to indicate equired by the code.
1. Indi	cate the type	of system to be	installed: NFPA	13	13R	13D	Other
Place y	our initials be	side the appropr	riate answer for i	tems 2	through 5.		
Yes Yes	No3.Will No4.Will liquid No5.Will	there be any ST there be any US ds within the bui there be any ST	SE, DISPENSINO	mable G, OR DISPE	and/or comb MIXING of fl NSING, OR	ustible liquid ammable an MIXING of a	s within the building? d/or combustible ny hazardous
Place y with the		side each staten	nent to indicate r	necess	ary informati	on is include	ed on or submitted
6. Fire	Department '	"General Notes	to the Contractor	: are p	provided on t	he plans.	
	III show those A. B. C. D. E. F. G. H.	items from the for Name of owner Name and add Location, include Point of compartill height cross Ceiling construction wall location wall to the control of t	ollowing list that r and occupant. Iress of contractor ding correct streets. ss section. Inction. It is contractor.	pertair or. et add	n to the desig		of each floor, and tem:

 L. Location and dimensions of:
1. Concealed spaces
2. Bathrooms
3. Attics
4. Closets
M. Any small enclosures in which NO sprinklers are to be installed.
N. A legend list with descriptions.
O. Detail of connection to the underground fire line.
 P. Shape of design area.
Q. A sprinkler head table listing the manufacturer, model, orifice size, temperature
rating, and protection area for each head type, and number of sprinkler heads per
riser on each floor. Detail of connection to the underground fire line.
R. The following in a "DESIGN CRITERIA" box:
 1. Hazard class
2. Design density
3. Design density 3. Design Area (sq. ft.)
4. Number of sprinklers in design area
5. Water supply data:
a. Test date and location
b. Flow PSI and GPM
c. Residual PSI
d. Static PSI
6. Hose stream and in-rack sprinkler water allowance
7. System demand:
a. PSI at riser
b. GPM at riser
 S. Pipe type and schedule of wall thickness.
 T. Type and location of hangers, sleeves, braces, and methods of securing sprinklers
 U. City main size and system elevation relative to flow test hydrant.

- 8. The Building Code occupancy class of each area or room in the building is indicated on the drawings.
- 9. Sprinkler heads are positions no closer than 4 inches to any wall, and no further from a wall that one-half the allowable distance between sprinklers.
- 10. The clear space below sprinklers is in accordance with NFPA 13.
- 11. The placement, location and contents of the spare sprinkler head cabinet is indicated on the drawings.
- 12. The type and locations of all control valves, check valves, and main and auxiliary drains are indicated and identified on the drawings.
- 13. The location and size of the inspectors test valve is indicated on the drawings.
- 14. The maximum floor area on any single floor, served by an individual riser, does not exceed NFPA 13 allowance.
- 15. The location and type of local water flow alarm is indicated on the drawings.
- 16. Cut sheet literature describing all system components are included as attachments; or component manufacturer, make, and model data is included on the drawings <u>when</u> the components are listed in the Underwriters Laboratories Inc. "Fire Protection Equipment Directory".
- 17. Sprinkler system installation under exterior combustible roofs or canopies exceeding four feet in width, attached to the building is indicated on the drawings.
- 18. Sprinkler head installation under ducts (more than 4 feet in width) is indicated on the drawings.
- 19. Sprinkler head installation for shade structure 3000 square feet or more is indicated on the drawings.

- 20. Third party monitoring of water flow is provided for systems with 20 or more sprinkler heads.
- 21. Fire hose valves and stations (when required or provided) are spaced so that all protected areas are within thirty feet of a nozzle when attached to not more than 100 feet of hose. Fire hose valves shall be 2- 2 1/2 male connections (NST) with gate valve. **No hose shall be attached**.
- 22. A detail of the hydraulic data nameplate is included on the drawings.
- 23. Calculations for hydraulically calculated systems contains the data required in accordance with NFPA 13.
- 24. Pursuant to Board of Technical Registration guidelines adopted March 17, 1989 sprinkler system design criteria has been accomplished by a registrant; and the submittal bears the registrants seal.